AMENDMENTS TO THE SPECIFICATION:

Please amend the noted paragraphs as follows: (please note that locations are specified with reference to the specification in view of the Preliminary Amendment dated May 20, 2002).

Please replace the paragraph that begins at page 3, line 9, with:

Giant reed is also used for erosion control and has great potential for use as an energy crop. Szabo, P., *et al., J. Anal. Appl. Pyrolysis, 36*:179 - 190 (1996). The culms are also used for fishing rods, walking sticks, mats and lattices in the construction of adobe huts ~~hits~~. Giant reed is also a source of industrial cellulose for paper and rayon making, and for the production of other polysaccharides. Neto, C. P. *et al., Ind. Crops & Prods., 6*:51 - 58 (1997). It has even been considered as a source of pulp for the making of paper. Perdue, R., *Arundo donax: Source of Musical Reeds and Industrial Cellulose*, www.wuarchive.wustl.edu/doc/misc/org/ doublereeds/general/cane.html.

Please replace the paragraph beginning at page 6, line 17, with:

Figure 3 shows (A) a photograph of plants six weeks after transfer to potting soil, where the plants are clones of *A. donax* that were grown by the present method from totipotent tissue culture tissue, and (B), the extensive root system of *A. donax* plants grown in a standard liquid hydroponic medium; and

Please replace the paragraph that beings at page 6, line 22 with:

Figure 4 illustrates the application of cloned *A. donax* plants in a phytoreactor system used to clean organic materials from water, where (A) shows the upper part of plants in a phytoreactor container suspended in a standard hydroponic medium, (B) shows the roots of *A. donax* plants after challenge with 0.25 mM trichloroethene solution, and (C) shows the foliage of ~~roots of control plants; after 3 to 4 weeks, the roots of the~~ challenged plants, the roots of which, after 3 to 4 weeks, had fully recovered and appeared ~~*appeared*~~ to be the same as the control plants as shown in (A) ~~(C)~~.

Please replace the paragraph beginning at page 7, line 1 with:

In accordance with the present invention, it has been discovered that regenerable tissue can be produced from tissues of plants of the Class Monocotyledonae, and in particular, plants of *Juncus spp., Scirpus spp., Cyperus spp., Carex spp., Erianthus spp., Typha spp, Cynodon dactylon, Digitaria sanguinalis, Erianthus giganteus, E. strictus, Miscanthus sinensis, Paspalum urvillei, Panicum dichotomum, Poa sp 1, Poa sp 2, Setaria gigantea, Sorghum halepense, Spartina alterniflora, S. cynosuroides, S. pectinata, S. spartinae, and S. patens of* Poaceae ~~Poaceaea~~ (grasses family); *Carex acuta, Carex sp 2, Cyperus esculentus, Cy. giganteus, Cy. haspan, Cy. iria, Cy. odoratus, Cy. pseudovegetus, Cy. retrorsa, Scirpus acutus, S. americanus, S. californicus, and S. validus of* Cyperaceae (sedges family)*; Juncus articulatus, J. compressus, J. dichotomus, J. effusus, J. roemerianus, and J. tenuis of* Juncaceae (rushes family); *as well as Typha angustifolia, T. dominguensis, and T. latifolia of* Typhaceae (cattails family*)* by a method wherein the tips of field-grown or greenhouse grown pre-flowering shoots with leaf sheaths completely enclosing a developing but yet unemerged immature inflorescence, whose surface has been sterilized, are stripped of the leaves and the inflorescences are cut into cross-sectional pieces, which are then cultivated on a solid-type primary medium containing plant hormones. Multishoot formation, but not elongation, occurs on the primary medium, and so the method is therefore suitable for sustained maintenance and propagation of the totipotent tissue culture.

Please replace the paragraph that begins at page 13, line 7, with:

In one example, the medium for the secondary cultivation is prepared by adding to sterile water from about 0.01 to about 1 mg/l, preferably about 0.02 mg/l ~~ml/l~~, of a cytokinin, such as thidiazurone, 30 g/l of sucrose, and about 3 ml of Miller's salt solution (6% w/v KH_2PO_4). The medium can be gelled and sterilized as described for the primary medium.

Please replace the paragraph that beings at page 21, line 26 with:

Figure 4 illustrates the application of the cloned *A. donax* plants in the phytoreactor system, where (A) shows the upper part of plants in a phytoreactor container suspended in a standard hydroponic medium, (B) shows the roots of *A. donax* plants after challenge with 0.25 mM trichloroethene solution, and (C) shows the foliage ~~roots of control plants. After a recovery period of 3 to 4 weeks, the roots~~ of the challenged plants, the roots of which, after a recovery period of 3 to 4 weeks, had fully recovered and appeared to be the same as the control plants as shown in (A) ~~(C).~~

In the drawings:

Please delete the color photographs that were filed with the original application as FIGURES 1 – 4, and replace the color photographs with the black and white photographs that are enclosed herewith as Figures 1 - 4. The black and white photographs are the same as the color photographs that were originally filed, except for the change from color format to black and white format.